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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,264	01/20/2006	Martin F. Bachmann	17000660000	5243
26111 7590 10/18/2007 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.			EXAMINER	
1100 NEW YORK AVENUE, N.W.		OGUNBIYI, OLUWATOSIN A		
WASHINGTO	NGTON, DC 20005		ART UNIT	PAPER NUMBER
			1645	
•			MAIL DATE	DELIVERY MODE
			10/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)			
	10/565,264	BACHMANN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Oluwatosin Ogunbiyi	1645			
The MAILING DATE of this communication ap	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	·				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 1-15,17 and 23-26 is/are pending in 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-15,17 and 23-26 are subject to res	awn from consideration.	nt.			
Application Papers	•				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin 11.	cepted or b) objected to by the edrawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat ority documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	Pate			

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DETAILED ACTION

The amendments to the claims filed 1/20/2006 have been entered into the record. Claims 16 and 18-22 have been cancelled. Claims 23-26 have been added. Claims 1-15, 17 and 23-26 are pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- I. Group I: claims 1-5, 6-10,11-14, 23,24 and 25, drawn to a composition for enhancing the production of IFN alpha in an animal comprising:
 - (a) a liposome;
 - (b) at least one A-type CpG; wherein all nucleotides of the A-type CpG oligonucleotide (b) are phosphodiester nucleotides, and further wherein said A-type CpG (b) is bound to said liposome (a).
- II. Group II: claims 15,17 and 26 drawn a method for enhancing the production of IFN alpha in an animal, said method comprising introducing into said animal the composition of claim 1.

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The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

- I. The technical feature of Group I is the composition for enhancing the comprising:
 - (a) a liposome;
 - (b) at least one A-type CpG; wherein all nucleotides of the A-type CpG oligonucleotide (b) are phosphodiester nucleotides, and further wherein said A-type CpG (b) is bound to said liposome (a). This technical feature is anticipated by Klinman et al. US 2003/060440 A1 March 27, 2003. See paragraphs 13,105, 113,116, 138. See especially paragraph 113 and 138. Klinman et al teaches D type (Also known as A-type See specification p. 2 line 22-24) CpG oligonucleotide covalently bound to a liposome (paragraph 138) wherein all the nucleotides of the D type/A type oligonucleotide are phosphodiester (paragraph 113).
- II. The technical feature of Group II is a method for enhancing the production of IFN alpha in an animal, said method comprising introducing into said animal the composition of claim 1.

Group I lacks unity with Group II because the technical feature of Group I is anticipated by the art and therefore not "special" within the meaning of PCT Rule 13.2 because it does not provide for a contribution that the claimed invention makes over the art.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so

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linked as to form a single general inventive concept under PCT Rule 13.1. The species are as follows:

Group I

- I. Species of A-type oligonucleotide recombinant oligonucleotide; a genomic oligonucleotide; a synthetic oligonucleotide; a plasmid-derived oligonucleotide; a PCR product; a single-stranded oligonucleotide; and a double-stranded oligonucleotide.
- II. Species of liposome neutral, anionic, cationic, stealth, cationic stealth

The following claims are generic and deemed to correspond to the species listed above in the following manner: claims 1-6, 8-12, 14, 15, 23-25.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

- I. The technical feature linking the species of A-type CpG is not novel and is not defined over the prior art. Paragraph 136 of Klinman et al cited above discloses synthetic A-type CpG (also known as D-type CpG).
- II. The technical feature linking the species of liposome is not novel and is not defined over the prior art. Kasid et al (US 6,333,314 B1. Dec. 25, 2001) discloses the species of cationic liposome (see abstract).

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include

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all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Oluwatosin Ogunbiyi whose telephone number is 571-272-9939. The examiner can normally be reached on M-F 7am-4pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Oluwatosin Ogunbiyi

Patent Examiner

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PATRICIA A. DUFFY
DRIMARY FXAMINER